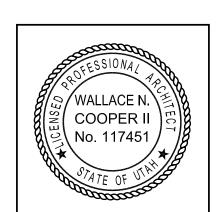
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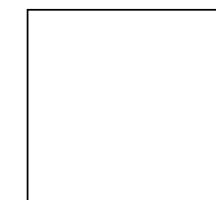
LOGAN ARMORY
UNHEATED STORAGE BUILDING DESIGN
DFCM PROJECT NO. 05191480 CONTRACT NO.

ARCHITECT'S PROJECT NUMBER: B05-044



ARCHITECT

COOPER ROBERTS SIMONSEN ARCHITECTS 700 NORTH 200 WEST SALT LAKE CITY, UT 84103 (801) 355-5915 FAX (801) 355-9885 WWW.CRARCHITECTS.COM



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S	SYMBOLS LEGEND		VICINITY MAP	CLIENT APPROVAL	
DETAIL NUMBER C5 SHEET NUMBER AE502 EXTERIOR ELEVATION REFERENCE SECTION REFERENCE DOOR # INTERIOR ELEVATION REFERENCE DOOR # FRAME TO REFERENCE (SINGLE)	TOTAL PROOF NOTE A WALL TYPE WINDOW TYPE NAME 101 BOOR NOTE DOOR TYPE	CONCRETE CONCRETE BLOCK MASONRY STEEL BATT INSULATION RIGID INSULATION FINISH GRADE WOOD PLYWOOD DEMOLITION NOTE: ALL MATERIALS REFERENCED ARE NEW UNLESS NOTED OTHERWISE	200 S 200 S 300 S 400 S FROJECT LOCATION PLAN NORTH	THE UNDERSIGNED HAS REVIEWED THESE PLANS AND SPECIFICATIONS AND FINDS THEM ACCEPTABLE. CHANGES IN THE PORTION OF THE PLANS HEREIN APROVED MAY RESULT IN A CHANGE IN THE COST OF THE PROJECT. CONSTRUCTION DOCUMENTS PHASE 7/22/05 DATE DFCM DATE UTAH NATIONAL GUARD DATE	
B4 1	ELEVATION MARKER	2	3	4	Xref C:\Acaddwg\logan\Gl001-A5-0

SHEET INDEX								
SHEET DESCRIPTION								
General								
GI001 COVER SHEET & SHEET INDE								
Architectural								
AS101	ARCHITECTURAL SITE PLAN							
AE101	PLANS AND DETAILS							
Electrical								
EG001	SYMBOLS, SCHEDULES, NOTES & FLOOR PLANS							
ES101	ELECTRICAL SITE PLAN							
EE101	(NOT USED)							
EX101	ONE-LINE DIAGRAM &							
	PANELBOARD SCHEDULE							

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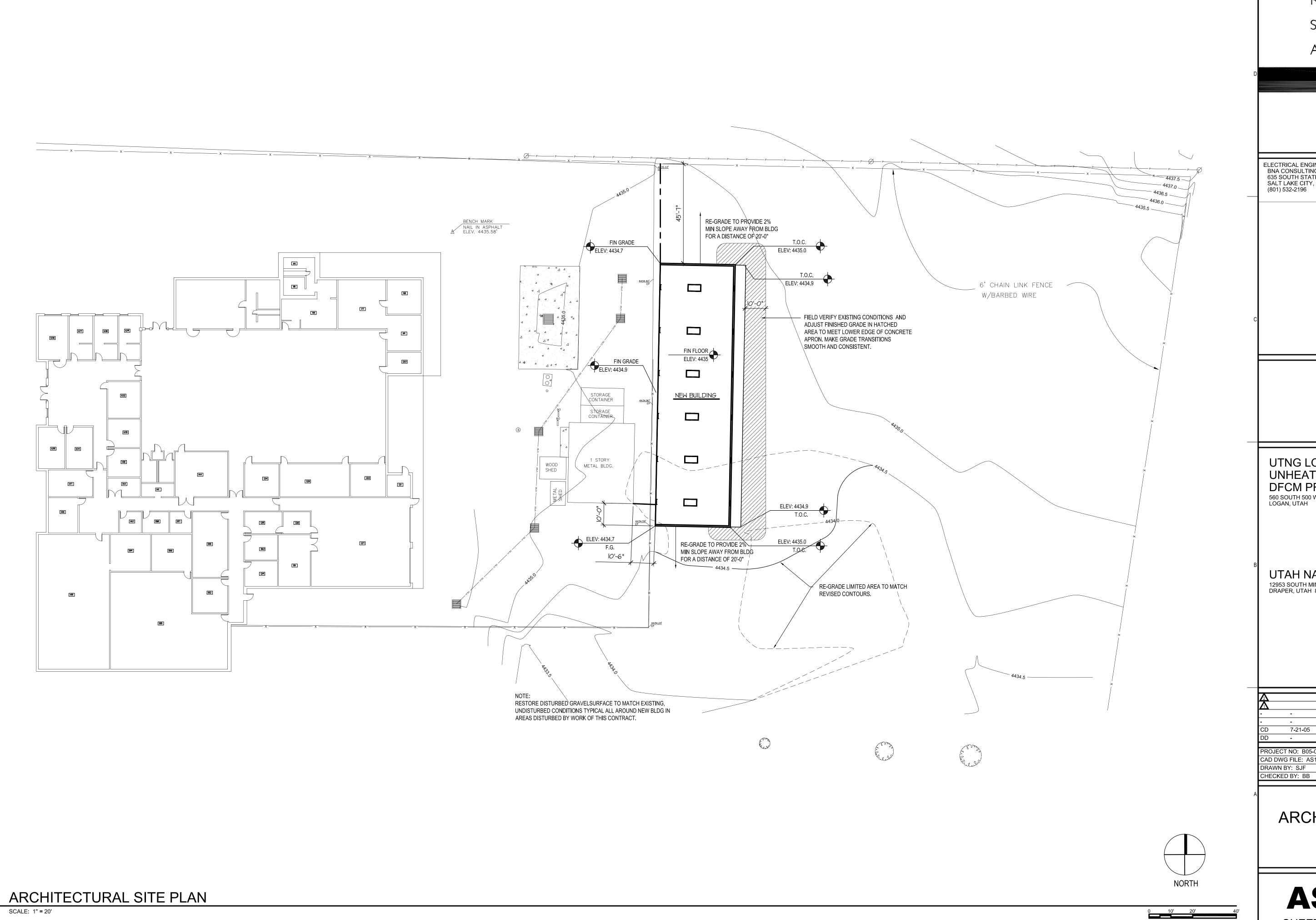
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12953 SOUTH MINUTEMAN DRIVE
DRAPER, UTAH 84020-1776

CD 7-22-05 100% CONSTRUCTION DOCUMENTS
DD - -

PROJECT NO: B05-044
CAD DWG FILE: gi001.dwg
DRAWN BY: SJF
CHECKED BY: DWT

COVER SHEET & SHEET INDEX

GI001
SHEET 1 OF 4



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PROJECT NO: B05-044

CAD DWG FILE: AS101.dwg

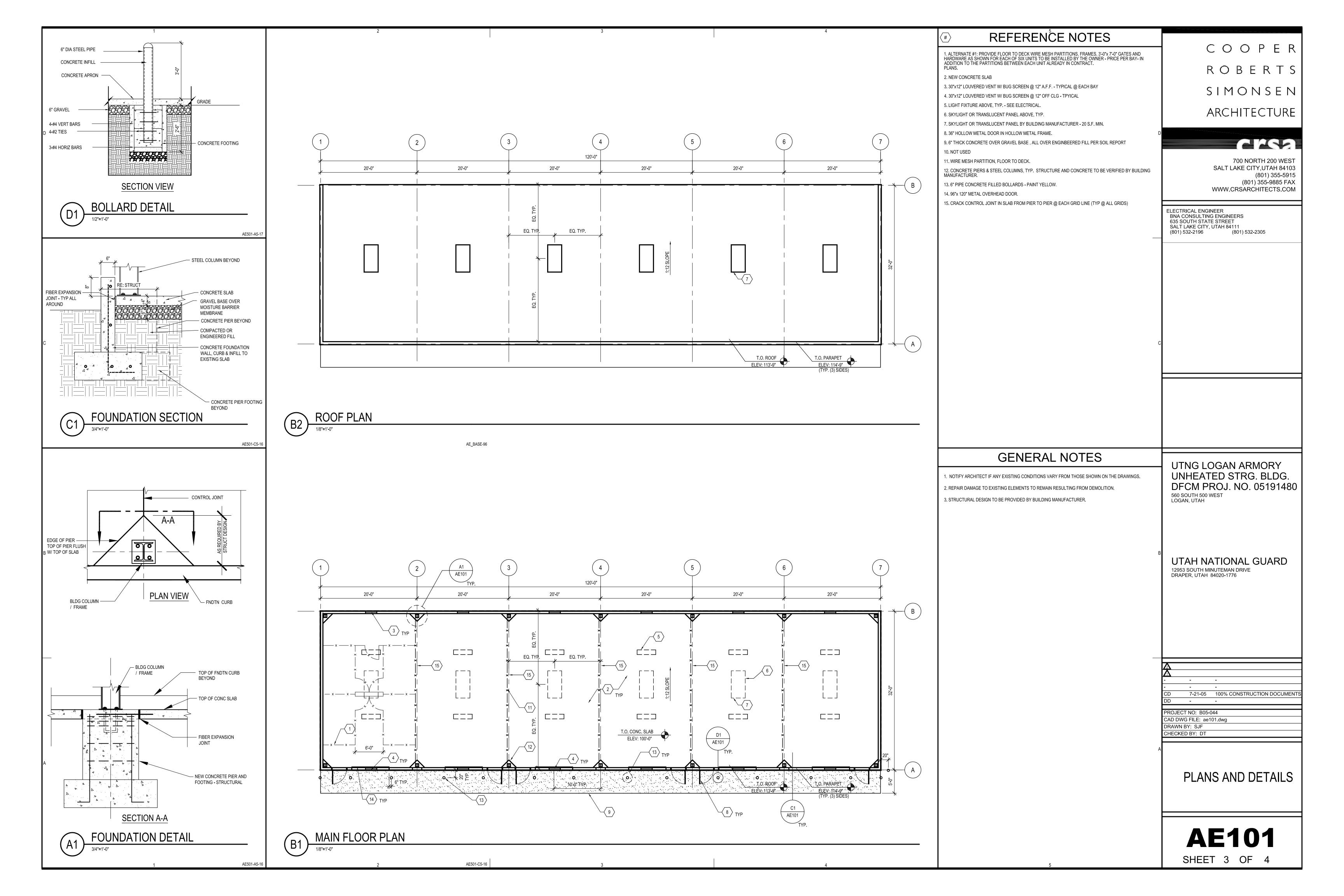
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ARCHITECTURAL

AS101

SITE PLAN

SHEET 2 OF 4



	FIXTU	JRE SCHEDULE		
TYPE	DESCRIPTION	CATALOG NUMBER	VOLTS	LAMPS
A	2 LAMP T8 FLUORESCENT INDUSTRIAL FIXTURE WITH COLD WEATHER ELECTRONIC BALLAST	LITHONIA AFST 232 120 CW METALUX ECIM 232 120V CW LIGHTOLIER TF4S232 120 SO CW DAY-BRITE 1F 232-PPS-120-LT COLUMBIA KL4-232-PRST-EB8Z 120	120	(2) F032/835
В	250 WATT METAL HALIDE WALL PACK WITH PHOTOCELL	LITHONIA TWH 250M 120 PE LUMARK MH WL 250 120V PE GENERAL ELECTRIC WM4T25M0/PEK-120 DAY-BRITE WLR 250M 12-WLS-PEC12 HUBBELL PGM-250H-128-1-PBT-1	120	(1) 250W MH

		LIGHT FIXTURE ABBREVIATION SCHEDULE	LIGHT FIXTURE GENERAL NOTES					
١	NOTE: NOT ALL ABBREVIATIONS WILL NECESSARILY BE USED.			REFER TO THE ARCHITECTURAL REFLECTED CEILING PLANS FOR LOCATIONS OF LIGHT FIXTURE				
	A.F.F.	ABOVE FINISHED FLOOR	''	BRING ALL DISCREPANCIES OF LOCATIONS AND QUANTITIES TO THE ATTENTION OF THE ARCHITECT AND ELECTRICAL ENGINEER PRIOR TO BIDDING.				
١	WALL@CLG	WALL MOUNT AT CORNER OF WALL AND CEILING	2.	REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHTS AND LOCATIONS OF LIGHT				
١	CCBA	CUSTOM PAINTED COLOR AS SELECTED BY THE ARCHITECT	-	FIXTURES. BRING ALL DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT PRIOR TO BIDDIN				
١	SCBA	STANDARD PAINTED COLOR AS SELECTED BY THE ARCHITECT	3.	REFER TO THE SPECIFICATIONS FOR OTHER LIGHT FIXTURE, FUSING, BALLAST, AND LAMP				
ı	CFBA	CUSTOM FINISH AS SELECTED BY THE ARCHITECT		REQUIREMENTS AND ACCEPTABLE MANUFACTURERS.				
١	SFBA	STANDARD FINISH AS SELECTED BY THE ARCHITECT	4.	REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR LOUVER REQUIREMENTS AS				
ı	MOD	MODIFY STANDARD LIGHT FIXTURE AS INDICATED		REQUIRED.				
			5.	CONFIRM AVAILABLE MOUNTING DEPTHS OF ALL LIGHT FIXTURES AND COMPARE WITH DEPTHS SHOWN ON SHOP DRAWINGS. BRING ALL POTENTIAL CONFLICT AREAS TO THE ATTENTION OF THE ARCHITECT AND ELECTRICAL ENGINEER PRIOR TO RELEASE.				

- 1. BID ONLY PRODUCTS THAT ARE SPECIFIED OR APPROVED BY ADDENDUM.
- 2. PACKAGING OF LIGHT FIXTURES WITH OTHER SYSTEMS IS NOT ALLOWED.
- 3. WHEN ONLY ONE PRODUCT IS APPROVED FOR BIDDING, THE PRICE FOR THAT ITEM SHALL BE BROKEN OUT SEPARATELY WHEN SUBMITTING PRICING TO VARIOUS
- . WHEN A CONTRADICTION EXISTS BETWEEN A SPECIFIC MODEL NUMBER AND THE DESCRIPTION, THE DESCRIPTION SHALL GOVERN.

PRIOR APPROVAL REQUIREMENTS

BIDDING REQUIREMENTS

- 1. PRIOR APPROVAL IS REQUIRED BEFORE BIDDING THIS PROJECT.
- 2. PRIOR APPROVALS SHALL BE SUBMITTED TO THE ELECTRICAL ENGINEER'S OFFICE AT LEAST (8) EIGHT WORKING DAYS BEFORE THE BID. PRIOR APPROVALS RECEIVED AFTER THIS TIME PERIOD SHALL BE REJECTED.
- 3. PRIOR APPROVALS SHALL BE SIGNED BY A PRINCIPAL OF THE SUBMITTING ORGANIZATION STATING THAT THEY HAVE PREPARED AND/OR REVIEWED THE SUBMITTAL AND THAT THE PRODUCTS PROPOSED ARE EQUIVALENT TO THOSE SPECIFIED. ANY EXCEPTIONS SHALL BE SO NOTED.
- 4. ITEMS THAT ARE SUBMITTED AND HAVE BEEN APPROVED WILL BE LISTED IN THE ADDENDUM(S). VERBAL APPROVAL WILL <u>NOT BE</u> GIVEN ON ANY ITEM.
- 5. IT IS NOT THE RESPONSIBILITY OF THE ELECTRICAL ENGINEER TO NOTIFY THE SUBMITTING PARTY OF ERRORS IN THE SUBMITTAL. NOTIFICATION OF ERRORS BY THE ELECTRICAL ENGINEER PRIOR TO ISSUANCE OF THE ADDENDUM(S) MAY NOT BE GIVEN.
- 6. PRIOR APPROVALS SHALL CONSIST OF TWO SETS OF CUT SHEETS DESCRIBING THE PRODUCTS BEING SUBMITTED AS EQUIVALENTS. FAXES ARE <u>NOT</u> ACCEPTABLE. ALL SPECIFICATION INFORMATION SHALL BE CLEARLY MARKED, WITH NON-APPLICABLE INFORMATION CROSSED OUT. COMPLETE PHOTOMETRIC DATA SHALL BE PROVIDED. PRODUCTS WITHOUT PHOTOMETRIC DATA WILL NOT BE APPROVED.
- 7. SUPPLY POINT-BY-POINTS AS REQUIRED BY THE ELECTRICAL ENGINEER AND/OR LIGHTING DESIGNER.
- SAMPLE FIXTURES MUST BE SUPPLIED WITH A CORD, PLUG AND 120V BALLAST.

LIGHTING SHOP DRAWING REQUIREMENTS

- 1. REFER TO SPECIFICATIONS 16001, 16510 & 16551.
- 2. MUST INCLUDE BALLAST AND LAMP CUT SHEETS.
- 3. LINEAR LIGHTING MUST INCLUDE DETAILED DRAWINGS WITH SUPPORT DETAILS, STEM LOCATIONS AND HAVE ALL LENGTHS IDENTIFIED WITH STEM LOCATIONS.
- 4. COLOR SAMPLES MUST BE INCLUDED IN FIRST SUBMITTAL.
- 5. CUT SHEETS MUST BE STAMPED BY THE FACTORY REPRESENTATIVE'S COMPANY NAME.
- 6. VALUE ENGINEERING CONDUCTED WITHOUT THE DESIGN TEAM IE; ARCHITECT, OWNER, ENGINEER & LIGHTING CONSULTANT/DESIGNER WILL NOT BE ALLOWED, REVIEWED OR
- 7. PROVIDE A LIST OF SPARE PARTS, EQUIPMENT & LAMPS.

GENERAL NOTES

- 1. CONSULT ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF ALL LIGHTING
- 2. VERIFY ALL EQUIPMENT DIMENSIONS AND LOCATIONS BEFORE BEGINNING ROUGH IN. CONSULT ALL APPLICABLE CONTRACT DRAWINGS AND SHOP DRAWINGS TO INSURE NEC CODE
- 3. CONTRACTOR SHALL VERIFY ALL ELECTRICAL LOADS (VOLTAGE, PHASE, CONNECTION REQUIREMENTS, ETC.) OF EQUIPMENT FURNISHED UNDER DIVISION 15 WITH APPROVED
- 4. SEE SECTION 16510 OF THE SPECIFICATION REQUIRED COORDINATION MEETINGS WITH MECHANICAL AND CEILING CONTRACTORS.
- 5. SEE APPLICABLE SHOP DRAWINGS FOR ROUGH IN LOCATION OF ALL EQUIPMENT, WIRING DEVICES, ETC. WHERE APPLICABLE MOUNT ALL WIRING DEVICES ABOVE BACK SPLASH EXCEPT THOSE SERVING UNDER COUNTER EQUIPMENT.
- 6. SEE SPECIFICATION FOR ENERGY SAVING LAMP AND BALLAST REQUIREMENTS.
- 7. FINISHES OF ALL LIGHT FIXTURES SHALL BE AS SELECTED BY ARCHITECT.
- 8. THE ELECTRICAL CONTRACTOR SHALL NOTIFY AND COOPERATE WITH THE MECHANICAL CONTRACTOR SUCH THAT NO PIPING, DUCTS, OR EQUIPMENT FOREIGN TO THE OPERATION OF THE ELECTRICAL EQUIPMENT SHALL BE PERMITTED TO BE INSTALLED IN, ENTER OR PASS THRU ELECTRICAL ROOMS OR SPACES, OR ABOVE OR BELOW ELECTRICAL EQUIPMENT IN
- 9. ELECTRICAL BOXES SHALL NOT BE LOCATED IN MASONRY COLUMNS IN BRICK WALLS OR IN GROUTED CELLS ADJACENT TO OPENINGS. COORDINATE LOCATION OF BOXES WITH MASONRY
- 10. ALL PENETRATIONS OF FIRE RATED FLOORS, WALLS, AND CEILINGS SHALL BE SEALED WITH APPROVED MATERIAL TO MAINTAIN FIRE RATING OF SURFACE PENETRATED.
- 11. CIRCUITS EXTENDING OVER 70' FOR 120 VOLT AND 165' FOR 277 VOLT 20 AMP CIRCUITS SHALL BE RUN WITH MINIMUM #10 CONDUCTORS.
- 12. ALL CONDUIT SHALL BE 3/4" MINIMUM.

SHEET KEYNOTES

- 1) CIRCUIT TO RECEPTACLE THIS BAY.
- 2 CIRCUIT TO LIGHT FIXTURE THIS BAY.

ELECTRICAL SYMBOL SCHEDULE

- SEE FIXTURE SCHEDULE FOR TYPE, MOUNTING AND WATTAGE.
 HEIGHT MEASURED TO CENTER LINE OF THE BOX FROM THE FINISH FLOOR.
 REFER TO DRAWINGS FOR DIRECTIONAL ARROWS.
- SUBSCRIPT KEYS SWITCH TO FIXTURES CONTROLLED.

 NEMA TYPE 'ND' NON-FUSED UNLESS NOTED 'F' (FUSED). USE 'HD' 480 V.

 HEIGHT TO BE THE LOWER OF EITHER 80" A.F.F. OR 6" BELOW CEILING.

 PROVIDE H.O.A. AND S.S. PUSHBUTTONS AS REQUIRED.
- DOUBLE ARROWS DENOTE A DOUBLE FACE UNIT.

STANDARD MOUNTING HEIGHT UNLESS OTHERWISE NOTED ON PLANS

SYMBOL DESCRIPTION

COORDINATE WITH MILLWORK SHOP DRAWINGS AND ELEVATIONS FOR HEIGHT. 10. SUBSCRIPT DENOTES NEMA CONFIGURATION. 11. HEIGHT MEASURED TO BOTTOM OF THE BOX FROM FINISH FLOOR.

- 1				HEIGHT	
1			ONE CIRCUIT, TWO WIRE HOME RUN TO PANEL		
		#	2 CIRCUIT, 3 WIRE, COMMON NEUTRAL HOME RUN		
		#	3 CIRCUIT, 4 WIRE, COMMON NEUTRAL HOME RUN		
			CONDUIT RUN CONCEALED IN WALL OR CEILING		
			CONDUIT RUN CONCEALED IN FLOOR OR GROUND		
╗		o	CONDUIT UP		
1			CONDUIT DOWN		
			CONDUIT STUB LOCATION	CAP CONDUIT	
			CABLE TRAY	AS NOTED	
۱		\cap	CEILING LIGHT FIXTURE	CEILING	1.
		<u>)</u>	WALL LIGHT FIXTURE	AS NOTED	1.
			RECESSED DOWNLIGHT FIXTURE	CEILING	1.
		<u> </u>	FLUORESCENT LIGHT FIXTURE	AS NOTED	1
			FLUORESCENT EGRESS LIGHT FIXTURE	AS NOTED	UNSWITCHED
		0-2	AREA LIGHT POLE AND FIXTURE	CONCRETE	SEE DIAGRAM
		<u> </u>	FLOOD OR TRACK FIXTURE	BASE AS NOTED	
\exists		\otimes	CEILING MOUNTED EXIT LIGHT	CEILING	1.3.8.
4		\otimes	WALL MOUNTED EXIT LIGHT	AS NOTED	1.3.8.
		\$	SINGLE POLE SWITCH	+4'-0"	2.
		\$°	SINGLE POLE SWITCH	+4'-0"	4. 2.
		φ \$ ³	THREE-WAY SWITCH	+4'-0"	2.
		\$ ⁴	FOUR-WAY SWITCH	+4'-0"	2.
		э \$ ^к	KEY OPERATED SWITCH	+4'-0"	2.
		\$P		+4'-0"	2.
			SWITCH WITH PILOT LIGHT	+4'-0"	2.
		\$ ^D	VARIABLE INTENSITY SWITCH		
		\$ TM	TIMER SWITCH	+4'-0"	2.
		P -	POWER PACK DUDLEY DECERTACIE UPPER OUTLET	CEILING +16" OR	SEE DIAGRAM, SPEC.
			SWITCH CONTROLLED	AS NOTED +16" OR	9. 11.
		+	DUPLEX RECEPTACLE	AS NOTED	9. 11.
		⊕ _A	DUPLEX RECEPTACLE	+24" OR	
		₩P	WEATHERPROOF RECEPTACLE	AS NOTED +16" OR	 9. 11.
			GROUND FAULT INTERRUPTER DUPLEX RECEPTACLE FOURPLEX RECEPTACLE	AS NOTED +16" OR	9. 11.
		⊕		AS NOTED +16" OR	10. WITH CAP. 11.
		>	SPECIAL PURPOSE OUTLET	AS NOTED +16" OR	
			TELEPHONE/DATA OUTLET	AS NOTED	9. 11.
		\bigcirc	TELEPHONE OUTLET	FLOOR	
		<u> </u>	JUNCTION BOX ('F' IN FLOOR)	AS NOTED TO SUIT	
		<i>\(\)</i>	MOTOR OUTLET	EQUIP.	TOPIC 20004
		P	PHOTO-ELECTRIC CONTROL	AS NOTED	TORK 2000A
		TC	TIME CLOCK	+5'-0"	2.
			PUSHBUTTON	+4'-0"	2.
			NON-FUSED DISCONNECT SWITCH	+5'-0"	5.
		F)	FUSED DISCONNECT SWITCH	+5'-0"	5.
		\$ ^T	MANUAL STARTER THERMAL OVERLOAD SWITCH WITH PILOT LIGHT	+4'-0"	2.
			MAGNETIC STARTER / PLOCALINEST COMPILATION	+5'-0"	7.
			MAGNETIC STARTER / DISCONNECT COMBINATION	+5'-0"	
	J	VFD	VARIABLE FREQUENCY DRIVE	+6'-6"	
			PANEL BOARD	TOP AT +6'-0"	
		842	ARCHITECTURAL ROOM NUMBER		
		(A)	LIGHT FIXTURE (LETTER DESIGNATES TYPE)		
		(EQ) 34	EQUIPMENT NUMBER		

INDEX OF ELECTRICAL DRAWINGS

- EG001 SYMBOLS, SCHEDULES NOTE, & FLOOR PLANS
- ES101 ELECTRICAL SITE PLAN
- EX101 ONE LINE DIAGRAM & PANELBOARD SCHEDULE

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UTAH NATIONAL GUARD 12953 SOUTH MINUTEMAN DRIVE

DRAPER, UTAH 84020-1776

CAD DWG FILE:

DRAWN BY: BNA

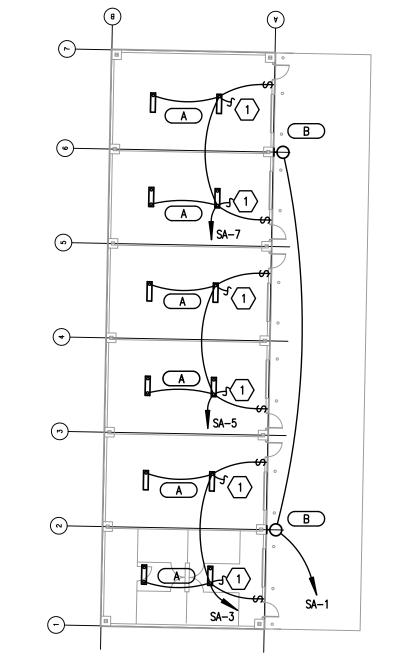
CHECKED BY: R.L.W. SYMBOLS,

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SCHEDULES, NOTES & FLOOR **PLANS**

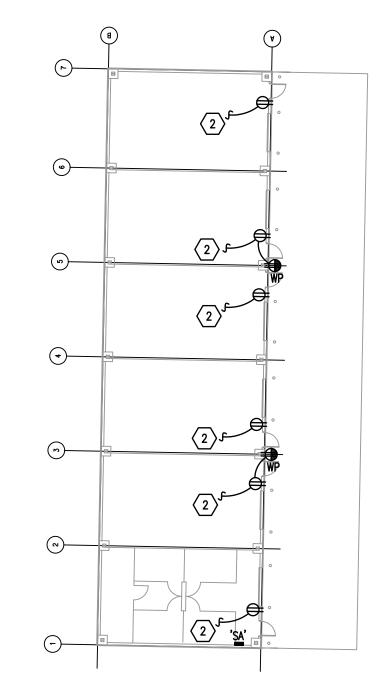
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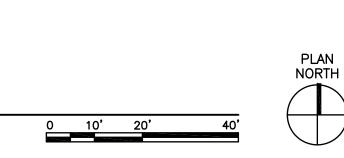
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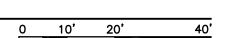
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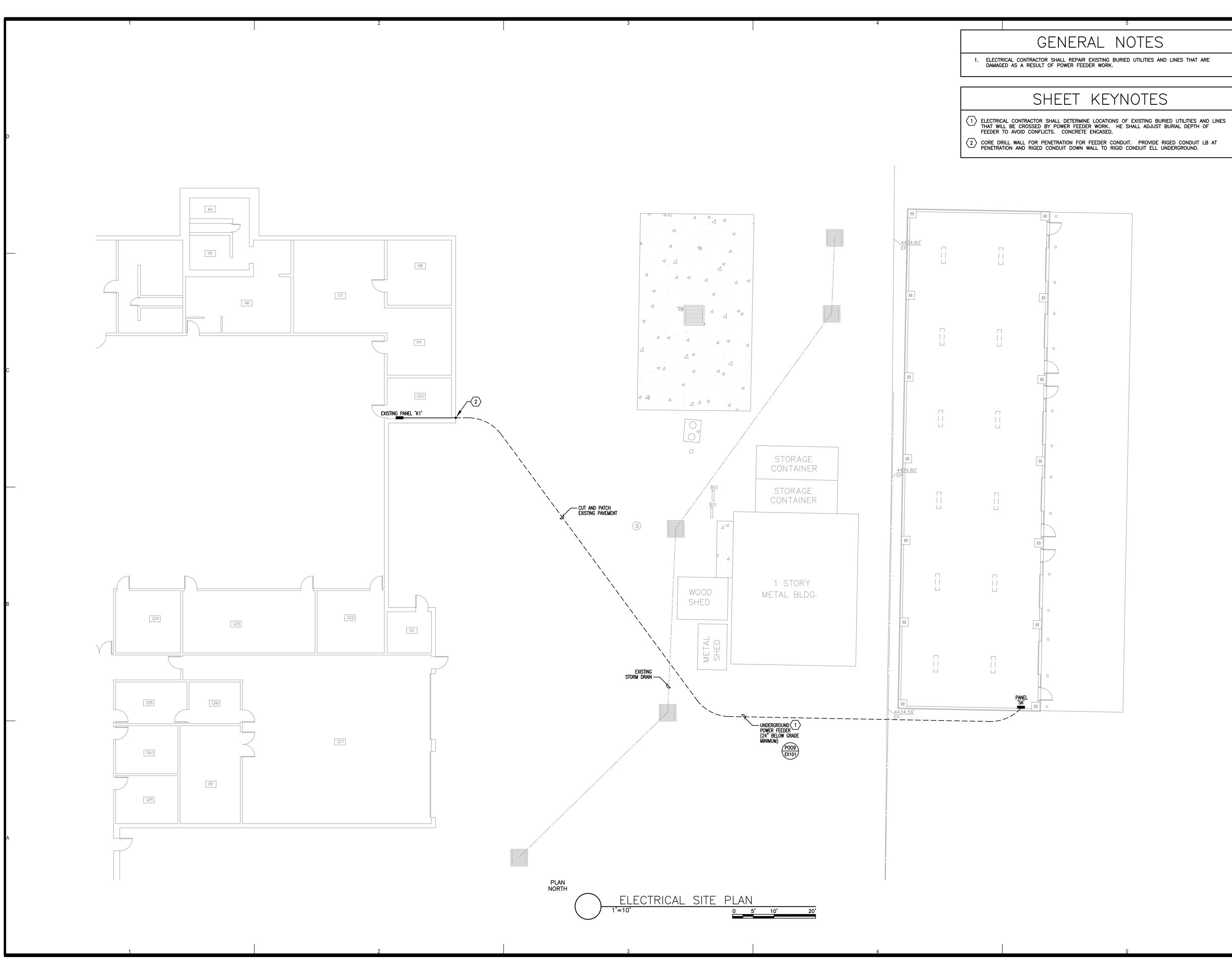
NORTH





POWER PLAN





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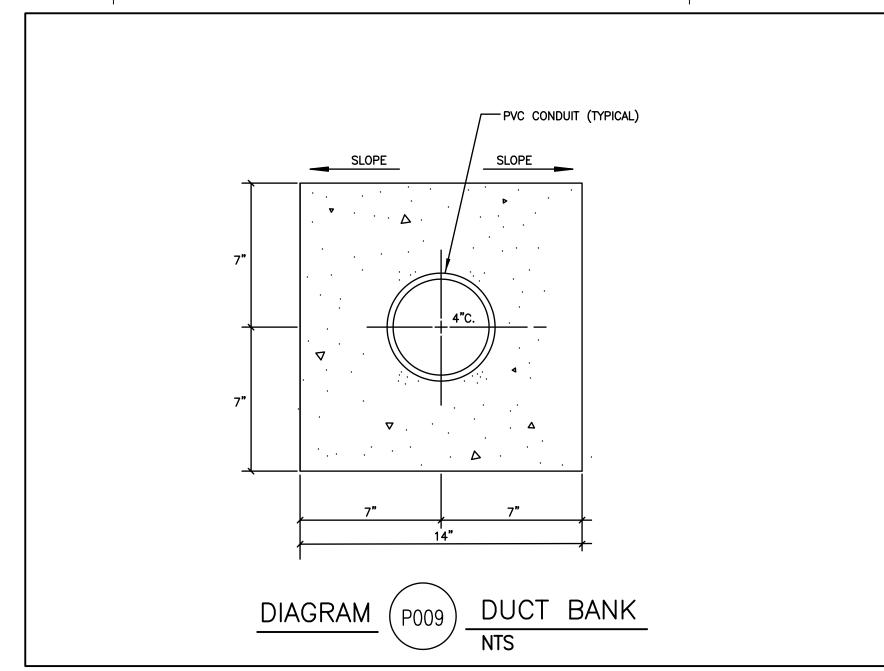
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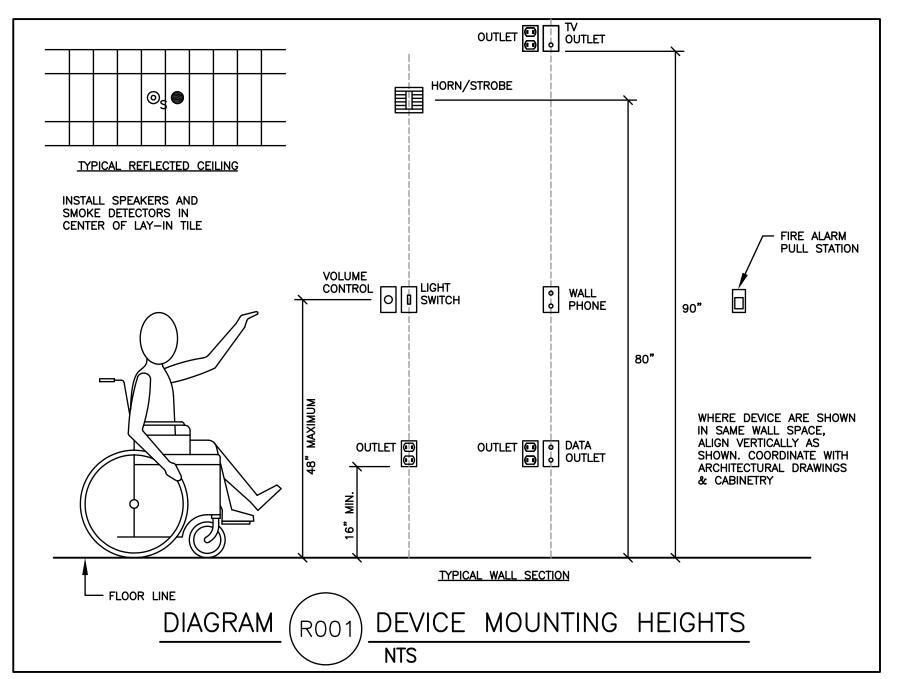
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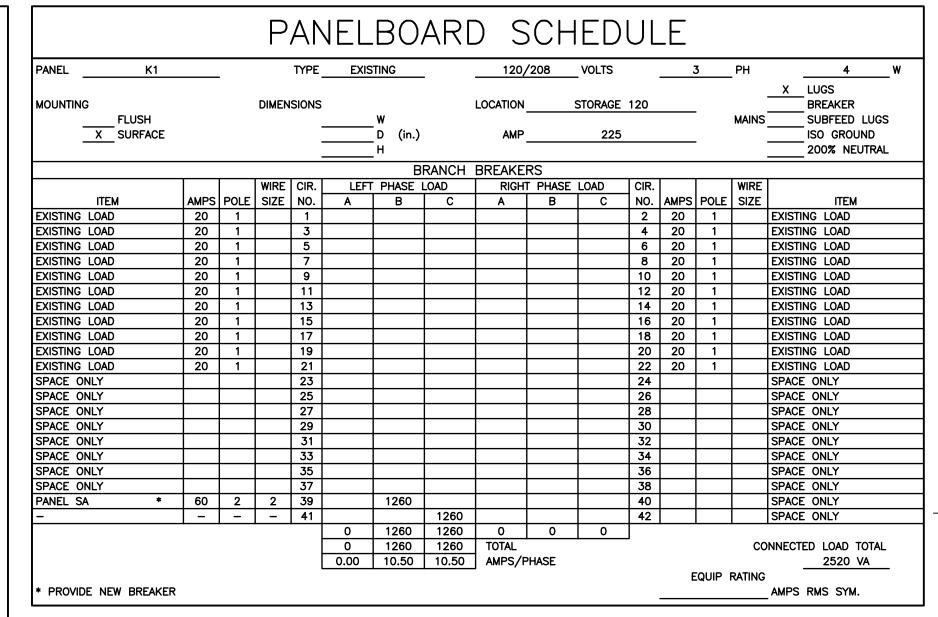
ELECTRICAL SITE PLAN

ES101

SHEET # OF #



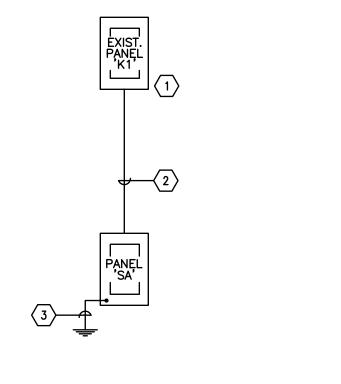




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PANELSA	NQOB		120/240VOLTS			S .	1	_PH		3_W				
MOUNTING FLUSH X SURFACE		DIMEN	NSIONS	20 6	W D (in.) H		STO		BLDG 60			MAINS	X	LUGS BREAKER SUBFEED LUGS ISO GROUND 200% NEUTRAL
			r= = 1				BREAKERS							
	l <u>-</u> -	 	WIRE				R. PHAS					WIRE		
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LIGHTING	20	1	12	1	600				2	20	1		SPARE	
LIGHTING	20	1	12	3		660			4	20	1		SPARE	
LIGHTING	20	1	10	5	660				6	20	1		SPARE	
LIGHTING	20	1	10	7		600			8	20	1		SPARE	
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SHEET KEYNOTES

- PROVIDE NEW BREAKER IN EXISTING PANEL 'K1' TO FEED NEW PANEL 'SA'. 2 PROVIDE (3) #2 THWN CU, (1) #6 THWN CU GND. IN A 1-1/2" CONDUIT.
- PROVIDE (1) #8 THWN CU GROUND CONDUCTOR TO TWO GROUND RODS DRIVEN EXTERIOR TO BUILDING, TIE TO BUILDING STRUCTURAL STEEL AND TO UFER GROUND IN FOOTING PER SPECIFICATION.



1 ONE-LINE DIAGRAM
NO SCALE

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CESA

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PROJECT NO: 05194A
CAD DWG FILE:
DRAWN BY: BNA
CHECKED BY: R.L.W.

ONE LINE
DIAGRAM &
PANELBOARD
SCHEDULE

EX101SHEET # OF #